

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/649,378B
Source: 1FW/6
Date Processed by STIC: 10/13/05

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 10/13/2005

PATENT APPLICATION: US/10/649,378B

TIME: 11:25:55

Input Set : A:\407T-911310US.txt

Output Set: N:\CRF4\10132005\J649378B.raw

3 <110> APPLICANT: FOGELMAN, ALAN M.
 4 ANANTHARAMAIAH, GATTADAHALLI M.
 5 NAVAB, MOHAMAD
 7 <120> TITLE OF INVENTION: ORALLY ADMINISTERED SMALL PEPTIDES SYNERGIZE STATIN ACTIVITY
 9 <130> FILE REFERENCE: 407T-911270US
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/649,378B
 12 <141> CURRENT FILING DATE: 2003-08-26
 14 <150> PRIOR APPLICATION NUMBER: US10/423,830
 15 <151> PRIOR FILING DATE: 2003-04-25
 17 <150> PRIOR APPLICATION NUMBER: US10/273,386
 18 <151> PRIOR FILING DATE: 2002-10-16
 20 <150> PRIOR APPLICATION NUMBER: US10/187,215
 21 <151> PRIOR FILING DATE: 2002-06-28
 23 <150> PRIOR APPLICATION NUMBER: US09/896,841
 24 <151> PRIOR FILING DATE: 2001-06-29
 26 <150> PRIOR APPLICATION NUMBER: US09/645,454
 27 <151> PRIOR FILING DATE: 2000-08-24
 29 <150> PRIOR APPLICATION NUMBER: US60/494,449
 30 <151> PRIOR FILING DATE: 2003-08-11
 32 <160> NUMBER OF SEQ ID NOS: 465
 34 <170> SOFTWARE: PatentIn version 3.3
 36 <210> SEQ ID NO: 1
 37 <211> LENGTH: 18
 38 <212> TYPE: PRT
 39 <213> ORGANISM: Artificial Sequence
 41 <220> FEATURE:
 42 <223> OTHER INFORMATION: Chemically synthesized peptide. Amino acids can be protected
 or
 43 unprotected D or L form.
 46 <220> FEATURE:
 47 <221> NAME/KEY: misc_feature
 48 <222> LOCATION: (1)..(1)
 49 <223> OTHER INFORMATION: Xaa is aspartic acid or glutamic acid.
 51 <220> FEATURE:
 52 <221> NAME/KEY: misc_feature
 53 <222> LOCATION: (2)..(3)
 54 <223> OTHER INFORMATION: Xaa is tryptophan, phenylalanine, alanine, leucine, tyrosine,
 55 isoleucine, valine or alpha-naphthylalanine.
 57 <220> FEATURE:
 58 <221> NAME/KEY: misc_feature
 59 <222> LOCATION: (4)..(4)
 60 <223> OTHER INFORMATION: Xaa is lysine, or arginine.
 62 <220> FEATURE:
 63 <221> NAME/KEY: misc_feature

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64 <222> LOCATION: (5)..(5)
65 <223> OTHER INFORMATION: Xaa is serine, threonine, alanine, glycine, or histidine,.
67 <220> FEATURE:
68 <221> NAME/KEY: misc_feature
69 <222> LOCATION: (6)..(7)
70 <223> OTHER INFORMATION: Xaa is tryptophan, phenylalanine, alanine, leucine, tyrosine,
71     isoleucine, valine or alpha-naphthylalanine.
73 <220> FEATURE:
74 <221> NAME/KEY: misc_feature
75 <222> LOCATION: (8)..(8)
76 <223> OTHER INFORMATION: Xaa is aspartic acid or glutamic acid.
78 <220> FEATURE:
79 <221> NAME/KEY: misc_feature
80 <222> LOCATION: (9)..(9)
81 <223> OTHER INFORMATION: Xaa is lysine or arginine
83 <220> FEATURE:
84 <221> NAME/KEY: misc_feature
85 <222> LOCATION: (10)..(11)
86 <223> OTHER INFORMATION: Xaa is tryptophan, phenylalanine, alanine, leucine, tyrosine,
87     isoleucine, valine or alpha-naphthylalanine.
89 <220> FEATURE:
90 <221> NAME/KEY: misc_feature
91 <222> LOCATION: (12)..(12)
92 <223> OTHER INFORMATION: Xaa is aspartic acid or glutamic acid.
94 <220> FEATURE:
95 <221> NAME/KEY: misc_feature
96 <222> LOCATION: (13)..(13)
97 <223> OTHER INFORMATION: Xaa is lysine or arginine
99 <220> FEATURE:
100 <221> NAME/KEY: misc_feature
101 <222> LOCATION: (14)..(14)
102 <223> OTHER INFORMATION: Xaa is tryptophan, phenylalanine, alanine, leucine,
tyrosine,
103     isoleucine, valine or alpha-naphthylalanine.
105 <220> FEATURE:
106 <221> NAME/KEY: misc_feature
107 <222> LOCATION: (15)..(15)
108 <223> OTHER INFORMATION: Xaa is lysine or arginine
110 <220> FEATURE:
111 <221> NAME/KEY: misc_feature
112 <222> LOCATION: (16)..(16)
113 <223> OTHER INFORMATION: Xaa is aspartic acid or glutamic acid.
115 <220> FEATURE:
116 <221> NAME/KEY: misc_feature
117 <222> LOCATION: (17)..(18)
118 <223> OTHER INFORMATION: Xaa is tryptophan, phenylalanine, alanine, leucine,
tyrosine,
119     isoleucine, valine or alpha-naphthylalanine.
121 <400> SEQUENCE: 1
W--> 123 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
124 1          5          10          15

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or

127 Xaa Xaa
 131 <210> SEQ ID NO: 2
 132 <211> LENGTH: 20
 133 <212> TYPE: PRT
 134 <213> ORGANISM: Artificial Sequence
 136 <220> FEATURE:
 137 <223> OTHER INFORMATION: Chemically synthesized peptide. Amino acids can be protected
 138 unprotected D or L form.
 141 <220> FEATURE:
 142 <221> NAME/KEY: misc_feature
 143 <222> LOCATION: (1)..(1)
 144 <223> OTHER INFORMATION: Xaa is Pro, Ala, Gly, Asn, Gln, or D-Pro
 146 <220> FEATURE:
 147 <221> NAME/KEY: misc_feature
 148 <222> LOCATION: (2)..(2)
 149 <223> OTHER INFORMATION: Xaa is is an aliphatic amino acid
 151 <220> FEATURE:
 152 <221> NAME/KEY: misc_feature
 153 <222> LOCATION: (3)..(3)
 154 <223> OTHER INFORMATION: Xaa is Leu
 156 <220> FEATURE:
 157 <221> NAME/KEY: misc_feature
 158 <222> LOCATION: (4)..(4)
 159 <223> OTHER INFORMATION: Xaa is an acidic amino acid
 161 <220> FEATURE:
 162 <221> NAME/KEY: misc_feature
 163 <222> LOCATION: (5)..(6)
 164 <223> OTHER INFORMATION: Xaa is Leu, or Phe
 166 <220> FEATURE:
 167 <221> NAME/KEY: misc_feature
 168 <222> LOCATION: (7)..(7)
 169 <223> OTHER INFORMATION: Xaa is a basic amino acid
 171 <220> FEATURE:
 172 <221> NAME/KEY: misc_feature
 173 <222> LOCATION: (8)..(8)
 174 <223> OTHER INFORMATION: Xaa is an acidic amino acid
 176 <220> FEATURE:
 177 <221> NAME/KEY: misc_feature
 178 <222> LOCATION: (9)..(10)
 179 <223> OTHER INFORMATION: Xaa is Leu, or Trp
 181 <220> FEATURE:
 182 <221> NAME/KEY: misc_feature
 183 <222> LOCATION: (11)..(11)
 184 <223> OTHER INFORMATION: Xaa is an acidic amino acid or Asn
 186 <220> FEATURE:
 187 <221> NAME/KEY: misc_feature
 188 <222> LOCATION: (12)..(12)
 189 <223> OTHER INFORMATION: Xaa is an acidic amino acid
 191 <220> FEATURE:

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192 <221> NAME/KEY: misc_feature
193 <222> LOCATION: (13)..(13)
194 <223> OTHER INFORMATION: Xaa is Leu, Trp, or Phe
196 <220> FEATURE:
197 <221> NAME/KEY: misc_feature
198 <222> LOCATION: (14)..(14)
199 <223> OTHER INFORMATION: Xaa is a basic amino acid or Leu
201 <220> FEATURE:
202 <221> NAME/KEY: misc_feature
203 <222> LOCATION: (15)..(15)
204 <223> OTHER INFORMATION: Xaa is Gln, or Asn
206 <220> FEATURE:
207 <221> NAME/KEY: misc_feature
208 <222> LOCATION: (16)..(16)
209 <223> OTHER INFORMATION: Xaa is a basic amino acid
211 <220> FEATURE:
212 <221> NAME/KEY: misc_feature
213 <222> LOCATION: (17)..(17)
214 <223> OTHER INFORMATION: Xaa is Leu
216 <220> FEATURE:
217 <221> NAME/KEY: misc_feature
218 <222> LOCATION: (18)..(18)
219 <223> OTHER INFORMATION: Xaa is a basic amino acid
221 <220> FEATURE:
222 <221> NAME/KEY: misc_feature
223 <222> LOCATION: (19)..(20)
224 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
226 <400> SEQUENCE: 2
W--> 228 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
229 1 5 10 15
232 Xaa Xaa Xaa Xaa
233 20
236 <210> SEQ ID NO: 3
237 <211> LENGTH: 18
238 <212> TYPE: PRT
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: Chemically synthesized peptide. Amino acids can be protected
or
243 unprotected D or L form.
245 <400> SEQUENCE: 3
247 Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu
248 1 5 10 15
251 Ala Phe
255 <210> SEQ ID NO: 4
256 <211> LENGTH: 18
257 <212> TYPE: PRT
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Chemically synthesized peptide. Amino acids can be protected
or

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262      unprotected D or L form.
264 <400> SEQUENCE: 4
266 Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu
267 1          5          10          15
270 Ala Phe
274 <210> SEQ ID NO: 5
275 <211> LENGTH: 18
276 <212> TYPE: PRT
277 <213> ORGANISM: Artificial Sequence
279 <220> FEATURE:
280 <223> OTHER INFORMATION: Chemically synthesized peptide. Amino acids can be protected
or
281      unprotected D or L form.
283 <400> SEQUENCE: 5
285 Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu
286 1          5          10          15
289 Ala Phe
293 <210> SEQ ID NO: 6
294 <211> LENGTH: 18
295 <212> TYPE: PRT
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: Chemically synthesized peptide. Amino acids can be protected
or
300      unprotected D or L form.
302 <400> SEQUENCE: 6
304 Asp Trp Phe Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Leu Lys Glu
305 1          5          10          15
308 Ala Phe
312 <210> SEQ ID NO: 7
313 <211> LENGTH: 18
314 <212> TYPE: PRT
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: Chemically synthesized peptide. Amino acids can be protected
or
319      unprotected D or L form.
321 <400> SEQUENCE: 7
323 Asp Trp Leu Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Phe Lys Glu
324 1          5          10          15
327 Ala Phe
331 <210> SEQ ID NO: 8
332 <211> LENGTH: 18
333 <212> TYPE: PRT
334 <213> ORGANISM: Artificial Sequence
336 <220> FEATURE:
337 <223> OTHER INFORMATION: Chemically synthesized peptide. Amino acids can be protected
or
338      unprotected D or L form.
340 <400> SEQUENCE: 8
342 Asp Trp Phe Lys Ala Phe Tyr Asp Lys Val Ala Glu Lys Phe Lys Glu
343 1          5          10          15
346 Ala Phe

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/649,378B

DATE: 10/13/2005
TIME: 11:25:56

Input Set : A:\407T-911310US.txt
Output Set : N:\CRF4\10132005\J649378B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18
Seq#:2; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20
Seq#:143; Xaa Pos. 1
Seq#:149; Xaa Pos. 1
Seq#:150; Xaa Pos. 1
Seq#:151; Xaa Pos. 1
Seq#:171; Xaa Pos. 1
Seq#:172; Xaa Pos. 1
Seq#:173; Xaa Pos. 1
Seq#:174; Xaa Pos. 1
Seq#:175; Xaa Pos. 1
Seq#:193; Xaa Pos. 3
Seq#:194; Xaa Pos. 3
Seq#:195; Xaa Pos. 3
Seq#:205; Xaa Pos. 1
Seq#:206; Xaa Pos. 1
Seq#:209; Xaa Pos. 3
Seq#:226; Xaa Pos. 1
Seq#:229; Xaa Pos. 3
Seq#:244; Xaa Pos. 4
Seq#:245; Xaa Pos. 4
Seq#:252; Xaa Pos. 4
Seq#:253; Xaa Pos. 4
Seq#:282; Xaa Pos. 1
Seq#:288; Xaa Pos. 1
Seq#:289; Xaa Pos. 1
Seq#:290; Xaa Pos. 1
Seq#:291; Xaa Pos. 1
Seq#:319; Xaa Pos. 1
Seq#:320; Xaa Pos. 1
Seq#:321; Xaa Pos. 1
Seq#:322; Xaa Pos. 1
Seq#:323; Xaa Pos. 1
Seq#:324; Xaa Pos. 1
Seq#:325; Xaa Pos. 1
Seq#:326; Xaa Pos. 1
Seq#:349; Xaa Pos. 4
Seq#:350; Xaa Pos. 4
Seq#:359; Xaa Pos. 4
Seq#:360; Xaa Pos. 4
Seq#:361; Xaa Pos. 4
Seq#:362; Xaa Pos. 4
Seq#:371; Xaa Pos. 4
Seq#:372; Xaa Pos. 4

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/13/2005
 PATENT APPLICATION: US/10/649,378B TIME: 11:25:56

Input Set : A:\407T-911310US.txt
 Output Set: N:\CRF4\10132005\J649378B.raw

Seq#:373; Xaa Pos. 4
 Seq#:374; Xaa Pos. 4

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
 per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:17,20,21,22,23,25,27,32,34,56,76,77,82,133,134,135,136,140,142,193,195
 Seq#:196,203,269,336,419,445,446

VERIFICATION SUMMARY

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Input Set : A:\407T-911310US.txt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

M:341 Repeated in SeqNo=1

L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0

M:341 Repeated in SeqNo=2

L:2733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143 after pos.:0

L:2829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:149 after pos.:0

L:2850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:0

L:2871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:0

L:3183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:171 after pos.:0

L:3204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:172 after pos.:0

L:3225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:173 after pos.:0

L:3246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174 after pos.:0

L:3267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175 after pos.:0

L:3543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:193 after pos.:0

L:3564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:194 after pos.:0

L:3585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:195 after pos.:0

L:3741 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:205 after pos.:0

L:3762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206 after pos.:0

L:3813 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:209 after pos.:0

L:4074 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:226 after pos.:0

L:4125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:229 after pos.:0

L:4356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:244 after pos.:0

L:4377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245 after pos.:0

L:4488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:252 after pos.:0

L:4509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:253 after pos.:0

L:4950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:282 after pos.:0

L:5046 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:288 after pos.:0

L:5067 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:289 after pos.:0

L:5088 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:290 after pos.:0

L:5109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:291 after pos.:0

L:5535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:319 after pos.:0

L:5556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:320 after pos.:0

L:5577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:321 after pos.:0

L:5598 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:322 after pos.:0

L:5619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:323 after pos.:0

L:5640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:324 after pos.:0

L:5661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:325 after pos.:0

L:5682 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:326 after pos.:0

L:6033 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:349 after pos.:0

L:6054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:350 after pos.:0

L:6195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:359 after pos.:0

L:6216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:360 after pos.:0

L:6237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361 after pos.:0

L:6258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:362 after pos.:0

L:6399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:371 after pos.:0

L:6420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:372 after pos.:0

L:6441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:373 after pos.:0

VERIFICATION SUMMARY

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L:6462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:374 after pos.:0